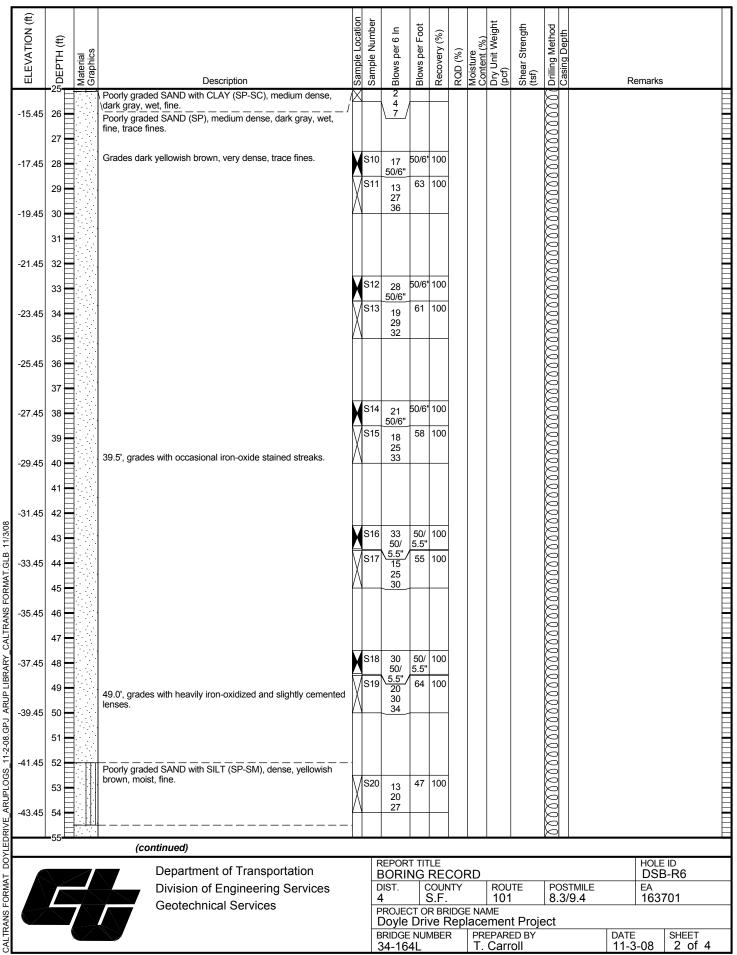
LOGGE	D BY		BEGIN DATE	COMPLETION DATE	BOREHOLE	LOCA	ATION (Lat/Lo	ong o	r North	n/East a	nd Datur	n)	HOLI	E ID		
S. M	cLan	drich	12-26-07	15.56	66 / E	5997	7656	3.382	DS	DSB-R6							
DRILLIN			CTOR and Testing, Inc.	BOREHOLE Offset 4					SURFACE ELEVATION 10.546 ft (NAVD88)								
DRILLIN					Ola +	J - T	1 01	7 / 11/2		BOREHOLE DIAMETER							
Mud		,		500					_	5 in.							
			AND SIZE(S) (ID) (1.4"), Shelby (2.8	SPT HAMM Automat			30		HAMMER EFFICIENCY, ERI 72.8%								
			LL AND COMPLETION						•	RDRILLIN	IG (DATE			OF BORING			
—	Cem	ent G	rout backfill						99	ft							
(#)						tion	_	ţ			ght	£	ا م				
Į	(ff)	ر ا				Loca	er 6 I	er Fo	У (%)		(%) Wei	Strength	Metho				
ELEVATION	DEPTH (ft)	Material Graphics				Sample Location Sample Number	Blows per 6 In	Blows per Foot	Recovery	RQD (%)	Content (%) Dry Unit Weight	Shear S (tsf)	Drilling Method Casing Depth				
П	_6 <u>-</u>	G M		Description		Sar	Bo	B	Rec	A N		She (1st)	Cag		Remark	S	\dashv
	, [to coarse, angular, with	C), dark brown, moist, GRA n SAND. [FILL]	AVEL is fine								-				E
	' E																E
8.55	2					S1	8	12	100								
	3		to medium.	L), dark olive gray, moist, s		X	6										
6.55	4		CLAYEY SAND with G brown, mottled, fine. G	RAVEL (SC), loose, dark l RAVEL is fine, subangula	brown and / r,	S2	_	0	100								
	Ė		organic/earthy odor.	O (CL), soft, dark greenish	i	M	0										E
	5		dark gray, very moist,	SAND is fine, mottled.	g.a, and												F
4.55	6		Fat CLAY with SAND (CH), bluish gray. [SANDY	/ BAY MUD]												
	7					U3		0	0								
2.55	8							psi									
	, E																E
	9																E
0.55	10																
	11																
-1.45	12		Grades sandy.														
	E					S4		0	100				E				
80/8/11/3/08 1.5EB 11/3/08	13		CLAYEY SAND (SC), with lenses of fat CLAY	dark bluish gray, moist, SA	AND is fine,		0						2000				Ē
-3.45	14		13.5', grades with fewer	er CLAY lenses.	/	\	0	11	100								E
Y Y	15	1/	dark bluish gray, very r	vith CLAY (SP-SC), mediu moist, fine, with occasiona		X	2 9										
일 -5.45	16		lenses.														
HYAL	E																E
S	17		Poorly graded SAND (S	SP), medium dense, dark	bluish gray,												
-7.45 ¥	18		very moist, line, occasi	ionaliai OLAT ICIISCS.		S6	12 22	35	100								E
	19		Grades wet.			-	13	4	100								
-9.45	20		Dark gray Fat CLAY w	ith SAND (CH), soft to ver		S7	0	4	100								
-9. 4 5			gray, very moist to wet	, SAND is fine. [SANDY E	BAY MUD]	/ \	3	$\vdash \vdash$									E
-2-08.	21																
-11.45	22		Poorly graded SAND (S	SP), medium dense, yellov	wish brown.												
LOG	23			ith trace fines. [COLMA S		S8	1 11	50	100								
13.45	24					Λ_{-}	24 26										E
1 -13.45 1 -13.45	²⁴ E					S9		11	100				200				E
CALIRANS FORMAL DOTLEDAVE AROPLOGS 11-2-08:GPJ AROP LIBRARY CALIRANS FORMAL 19:10-11:2-08:GPJ AROPLIBRARY FORMAL 19:10-11:2-08:GPJ AROPLI	- 25 -	_, /, _	(continued)			v V											
			Depart	ment of Transporta	tion		REPOR BORI			:OBI	<u> </u>				HOL	E ID B-R6	
Y AMA	ervices	П	DIST.	С	OUN		RC	UTE	POSTM		EA						
	\leftarrow	7	Geotec	chnical Services			4 PROJE		S.F. R BR	DGE I	10 NAME	1	8.3/9.	4	163	3701	
IKAN							Doyle Drive Replacement Project BRIDGE NUMBER PREPARED BY DATE SHEE							SHEET			
Z	34-164L T. Carroll								11-3-08	1 of	4						



ELEVATION (ft)	DEPTH (ft)	Material	Graphics	Description		Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Molsture Content (%) Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks	
-45.45	56		: 1	Poorly graded SAND (SP), dense, yellowish brown, moist, ine.									00000			
-47.45	57 58 59		// I	Poorly graded SAND with CLAY (SP-SC), dense, dark gray, wet, SAND is fine, with black specks, with shell fragments up o 1/16" diameter.	/s	521	12 15 15	30	100				000000000000000000000000000000000000000			
-49.45																
-51.45				Grades with increased CLAY content.	/Is	522	15	51	100				000000			
-53.45	63 64 65			X			23 28						000000			
-55.45				Lean CLAY (CL), hard, olive gray, damp to dry, with trace SAND. [OLD BAY CLAY]									000000			
-57.45	68 69			SAND. [OLD BAT OLDAT]	s	523	12 20 22	42	100			PP = 2.0	000000			
-59.45	70 71												000			
-61.45 11/3/08	72 73		1	SANDY CLAY (CL), very stiff, orangish brown, moist, with reddish brown GRAVEL, with pockets of olive gray lean CLAY with trace fine SAND, fine SAND grades medium stiff.	s	524	21 50/6"	50/6"	100							
FORMAT.GLB 11/3/08	74 75			, allowed the second of the se												
CALTRANS CALTRANS	76 77												0000000			
-67.45	78 79			Grades bluish gray with vertical reddish brown vein, with 1/8" diameter calcite nodules.	/s	325	10 15 27	42	100				00000			
-69.45 -69.45	80												000000000000000000000000000000000000000			
-71.45	82 83			Grades with pockets of gray CLAYEY SAND, light gray CLAY	/s	326	18	60	100				10000			
-73.45 -73.45	84		/	race fine GRAVEL (GRAVEL is subrounded).			25 35						2000			
JA/Ei				(continued)		1 -									Tuo. = :-	
CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11-2-08.GPJ ARUP LIBRARY_CALTRANS FO 4.1-2-08.GPJ ARUP LIBRARY CALTRANS FO 4.4-2-2-8.GPJ ARUPLOGS_11-2-08.GPJ ARUPLOGS_1				Department of Transportation Division of Engineering Services Geotechnical Services		B D 4	ROJEC	IG F	OUN S.F.	ITY IDGE	ROU 101 NAME		8.3	STMILE 3/9.4	HOLE ID DSB-R6 EA 163701	
CALTRAN			\nearrow			BI	oyle RIDGE 4-164	Driv NUN	∕e R	Repla	PREPARI T. Carr	t Proje ED BY oll	ect	DATE 11-	SHEET 3-08 3 of	4

ELEVATION (ft)	i i i	יוט בורום (וו)	Material Graphics	Description	Sample Location Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%) Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Residence of the second	emarks	
-75.45	86	E		SANDY CLAY (CL), very stiff, orangish brown, moist, with reddish brown GRAVEL, with pockets of olive gray lean CLAY with trace fine SAND, fine SAND grades medium stiff. [ALLUVIUM]								MINI			
-77.45		3		Grades without oxidized nodules, with black carbon veins (up to 1/16" diameter)	S2	7 14 26 31	57	100				<u> </u>			
-79.45												MMM			
-81.45				SEDIMENTARY ROCK (Siltstone and Sandstone), yellowish brown and reddish brown, very intensely weathered, moderately hard, with soft CLAY infilling, heavy iron-oxide staining on fracture planes. [BEDROCK]	X _{S2}	8 50/5.	5", 50/	100				MANNE			
-83.45		1					\\\5 <u>.5</u> "					MMM			
-85.45		6										STATE			
-87.45	98	E			U2	9	350 psi to 400 psi	100							
-89.45		0		Borehole terminated at a depth of 99 feet on 12/26/2007. See Boring Record Legend for soil classification chart and key to test data and sampler type.											
-91.45	10	F													
-93.45		4													
-95.45		6													
-97.45	10	F													
-99.45		0													
-95.45 -97.45 -99.45 -101.45		3													
_I -103.45	11	E													
				Department of Transportation		REPO	RT TIT	LE						HOLE ID	
			4	Division of Engineering Services		BOR DIST.		COUN	ITY	ROU	ITE	POS	STMILE	DSB-R6	
	<u>/</u>		7	Geotechnical Services		PROJE	CTO	S.F.	IDGE	101 E NAME		•	3/9.4	163701	
		(+	BRIDG	E NUI	ve F	kepl R	PREPAR	ED BY	ect	DATE 11-3	SHEE	Τ
Щ_						34-1	54L			T. Carr	OII		11-3-		1 4